In console run python a7.py, then enter a valid user_id and press ENTER, the main menu will show:

```
PS C:\Users\james\My Drive\_sfu\cmpt354\a7> python a7.py
Please enter user_id: ZZAFNJnDgITH8QwcDIiucw
Login successfully as user_id: ZZAFNJnDgITH8QwcDIiucw
-----------------------
Main Menu
1. Search Business
2. Search Users
3. Make Friend
4. Review Business
5. Exit
Please enter your choice: 
```

Choose between 1-5 from the Main Menu then press ENTER

* When 1 (Search Business) is chosen from Main Menu, enter the filter(s) and order according to the prompt, leave empty if a filter is not required, and the records will show. If there are lots of records, the output will pause periodically so that the terminal is not flushed. Press Enter to continue showing records or press q and ENTER to return to Main Menu.

```
-----------------------
Main Menu
1. Search Business
2. Search Users
3. Make Friend
4. Review Business
5. Exit
Please enter your choice: 1
Please enter minimum number of stars (1 to 5), leave empty if no such filter: 4.1
Minimum number of stars =  4.1 , filter will apply
Please enter city, leave empty if no such filter:
No city filter will apply
Please enter name (or part of the name), leave empty if no such filter: jay
Name (or part of the name) =  jay , filter will apply
Order by: 1. Name (or part of name) 2. City 3. Number of stars, leave empty means order by name
Please enter your choice: (1, 2, or 3): 3
Order by number of stars
business_id: 1zu1czkqmV7LIoNObjpFUQ | name: Jayden Salon | address: 15351 37 Street NW | city: Edmonton | s
tars: 5.0
business_id: chMds8lEr5pVHpQDWhycXQ | name: Jay's Towing Service | address: 7219 140 Ave NW | city: Edmonto
n | stars: 5.0
2 records shown in total
```

If no record is found based on the search filters, a message will be shown:

```
-----------------------
Main Menu
1. Search Business
2. Search Users
3. Make Friend
4. Review Business
5. Exit
Please enter your choice: 1
Please enter minimum number of stars (1 to 5), leave empty if no such filter: 4.1
Minimum number of stars =  4.1 , filter will apply
Please enter city, leave empty if no such filter: Shanghai
City =  Shanghai , filter will apply
Please enter name (or part of the name), leave empty if no such filter:
No name filter will apply
Order by: 1. Name (or part of name) 2. City 3. Number of stars, leave empty means order by name
Please enter your choice: (1, 2, or 3):
Order by name
No record found!!!
```

* When choice 2 (Search User) is chosen from Main Menu, choose the appropriate filter according to prompt and leave empty if a specific filter is not needed. A list of users will be shown.

```
-----------------------
Main Menu
1. Search Business
2. Search Users
3. Make Friend
4. Review Business
5. Exit
Please enter your choice: 2
Please enter name (or part of the name), leave empty if no such filter: Jac
Name (or part of the name) =  Jac , filter will apply
Please enter minimum review count, leave empty if no such filter: 40
Minimum review count >=  40 , filter will apply
Please enter minimum average star (1 to 5), leave empty if no such filter: 4.2
Minimum average star =  4.2 , filter will apply
user_id: utwtd44fjhA9r5daQwK8lQ | name: Jacob | review_count: 125 | useful: 297 | funny: 93 | cool: 260 | a
verage_stars: 4.43 | yelping_since: 2012-05-30 05:57:56
user_id: uyFwnqUounCPNxPgA9XRTA | name: Jacquie | review_count: 43 | useful: 6 | funny: 0 | cool: 4 | avera
ge_stars: 4.56 | yelping_since: 2013-08-04 00:39:55
2 records shown in total
```

If no records are found then a message will be shown.

```
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Main Menu
1. Search Business
2. Search Users
3. Make Friend
4. Review Business
5. Exit
Please enter your choice: 2
Please enter name (or part of the name), leave empty if no such filter: Joache
Name (or part of the name) =  Joache , filter will apply
Please enter minimum review count, leave empty if no such filter:
No minimum review count filter will apply
Please enter minimum average star (1 to 5), leave empty if no such filter:
No minimum average stars filter will apply
No record found!!!
----------------------
```

* When 3 (Make Friend) is chosen from the Main Menu, enter the user_id that you want to make friend with:

```
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Main Menu
1. Search Business
2. Search Users
3. Make Friend
4. Review Business
5. Exit
Please enter your choice: 3
Please enter friend's user_id: zZDXTDfx7d0bv0RI3IOxmw
You successfully make friends with this user: zZDXTDfx7d0bv0RI3IOxmw
```

It would prompt if you are already with this user_id as a friend:

```
----------------------
Main Menu
1. Search Business
2. Search Users
3. Make Friend
4. Review Business
5. Exit
Please enter your choice: 3
Please enter friend's user_id: zZDXTDfx7d0bv0RI3IOxmw
You are already friends with this user
```

Also it is not allowed to user your own user_id to make friend:

```
----------------------
Main Menu
1. Search Business
2. Search Users
3. Make Friend
4. Review Business
5. Exit
Please enter your choice: 3
Please enter friend's user_id: ZzbvJMq1SqUh18zP4MQKNA
You cannot be friends with yourself
```

* Choose 4 (Review Business) from the Main Menu, and enter the business id you want to review and then enter the start 1-5 in integer:

```
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Main Menu
1. Search Business
2. Search Users
3. Make Friend
4. Review Business
5. Exit
Please enter your choice: 4
Please enter business_id: ZwCPzbJJvHKkPfbdWm17fg
Please enter stars from 1 to 5: 3
You successfully review this business: ZwCPzbJJvHKkPfbdWm17fg with stars: 3 review_id: N2sifwdgka6zklKU8VC6
La
```

The triggers will automatically update review_count and avg_stars for the reviewed business

* Choose 5 (Exit) from the Main Menu to exit from the program

```
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Main Menu
1. Search Business
2. Search Users
3. Make Friend
4. Review Business
5. Exit
Please enter your choice: 5
PS C:\Users\james\My Drive\_sfu\cmpt354\a7> 
```